

## A SANITARY WATER SUPPLY FOR FARM

Use Care in Locating the Well—By B. M. Bolton, M. D.

The importance of a sanitary water supply both for drinking and for purposes of cleanliness has long been recognized, and the improvement in the health of communities which has followed the introduction of abundant supplies of pure water bears testimony to the importance of every precaution in this direction. While the value of a sanitary water supply for cities and towns has thus been demonstrated, too little consideration has been given to the water supplies for farms. Contaminated water used in connection with farm products may affect not only the farmer himself and his immediate family, but all of those who use his products. All the products of

the farm which are washed before sending to market and all vessels and containers for food may be made dangerous to health by being washed in polluted water.

There is perhaps no one source of danger so great as that arising from the use of polluted water for washing and rinsing the vessels used for milk. It should be borne in mind that bacteria of various sorts flourish in milk, and that bacteria are the cause of many diseases. Milk is one of the best

well the ground between may eventually become saturated and fail to act as a filter. As already stated, the presence of an impervious stratum between the wall and the cesspool is a good protection, but where such a stratum does not exist the cesspool should be made water-tight. The crude methods of sewage disposal still quite commonly in vogue in the country are a continual menace to the water supply.

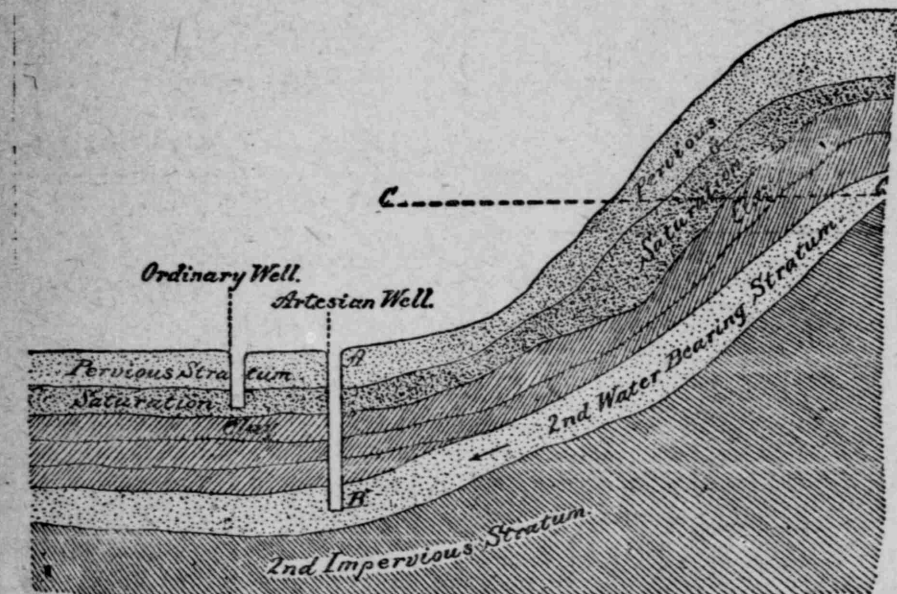
One of our illustrations shows a well which is imperfectly guarded against pollution and with very slovenly surroundings. The situation of the well in this case is good. It stands at a considerably higher level than the barnyard, which is below and at the left, and is separated from the domestic sources of pollution by a ledge of rock, while the domestic sources of pollution lie to the right and are several hundred feet away. The well is only about seven feet deep, but it is bored into the solid rock, and in spite of its want of depth there would appear no good reason why it should not be made to fulfill the requirements of a sanitary supply, yet when it was inspected it was found to have a loose coping and there was no provision against pollution due to stray animals.

One of our illustrations shows a well bored into solid rock, and although it is only 16 feet deep it would appear to be well protected from any source of contamination. Besides the protection afforded by the natural rock, the curb and cover are tight and, moreover, the cover has a slant so as to shed water.

Where there is no spring and where for any reason it is not feasible to sink a well it becomes necessary to resort to cisterns, and if these are properly constructed and operated they may be made to fulfill all sanitary requirements. The walls should be water-tight, of course, both to prevent water leaking out and to guard

against pollution from without. The best cisterns are those constructed with two chambers separated by a porous brick partition through which the water is filtered. The water from the roof is made to run into one chamber, and is pumped out of the other after passing through the partition. The rain pipe from the roof should be provided with an arrangement for preventing the first water which falls in time of rain from running into the cistern, since the first water after dry weather may become polluted with dust or bird droppings on the roof. The roof from which the water is caught should be preferably of slate. Water from wooden shingles is often tainted.

Get Rid of Her—The scrub cow is the most expensive thing on the dairy farm.



Geological Formation Showing Manner in Which Water Is Secured from Wells of Varying Depths.

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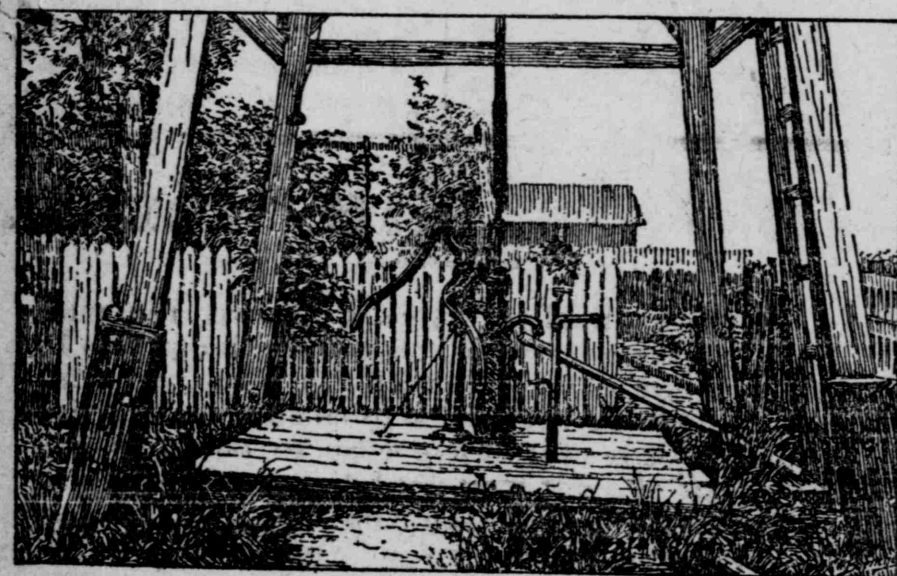
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A Well with Good Natural Location, But with Slovenly Surroundings, Not Properly Guarded Against Pollution.

media for the growth of bacteria, and one drop of polluted water contains enough bacteria for the contamination of almost any amount of milk.

The three factors necessary for a sanitary water supply are purity, abundance and convenience. The most important of these factors and that which has received most consideration as a rule is purity. People naturally prefer clean, pure water, and they are



A Well with Surroundings Protecting It from Pollution.

generally educated up to the dangers arising from polluted water as a possible source of infection. Hygienic examinations of water supplies often begin and end with a determination of bacteriological or chemical contamination to the neglect of questions regarding proper location, abundance and convenience—factors which cannot be safely ignored.

To guard against the pollution of wells the location is of importance. Where it is possible the ground should slope away naturally on all sides and the pump should be on top of a mound which should be well sodded or cemented all around. Sources of domestic or other pollution should be separated from the well by an impervious layer below ground to avoid the danger of pollution from seepage.

The ground immediately around the well should be protected from animals

### ALIBI CONTENTION

Given Setback by Refutation of Train Dispatcher's Testimony.

Jersey City, Oct. 3.—The attempt of the defense to establish an alibi for Theodore C. Whitmore, now undergoing trial on the charge of having murdered his wife last Christmas night, received a serious setback when train sheets of the Interborough Railroad company of New York city were submitted in evidence in refutation of the testimony of Train Dispatcher Pulver, who deposed earlier in the trial that he saw Whitmore in New York on Christmas night, shortly after dispatching a train at 11:30 o'clock. Witnesses also were examined who declared they heard Pulver say that he did not know whether it was 11:30, 12:30 or 1:30 o'clock when he saw Whitmore. A number of boon companions and associates of Whitmore were examined during the day. Their testimony for the most part bore out that of Whitmore himself, and corroborated his recitals of his movements on the night of the crime.

Hemmed In by Flames.

New York, Oct. 3.—Hemmed in by flames and unable to escape from the basement of a business house in Duane street, Henry Jones and David Mahoney were burned to death and William Settgest was so seriously burned about the face and hands that he will probably die. The men were employed by the firm of Stillman & Engel, manufacturers of celluloid novelties, and they were at work when a barrel of celluloid caught fire. Frank Stillman, a member of the firm, and four girl employees, escaped from the building by the fire escapes.

Poolrooms Are Raided.

New York, Oct. 3.—Two spectacular raids of alleged poolrooms were made by the police at different places in the East Side of the city. In the aggregate 280 prisoners were taken, and in addition it is said that a considerable quantity of gambling paraphernalia was confiscated.

### CARDINAL GIBBONS IS NON-COMMITTAL

Says Catholic Church Does Not Recognize Politics.

Washington, Oct. 3.—National Democratic Committeeman Edwin A. Newman of the District of Columbia related a recent conversation he had with Cardinal Gibbons as important in indicating the attitude of the Catholic church in the present presidential campaign.

"Cardinal Gibbons stated," said Mr. Newman, "that he made it a rule not to discuss party politics in a public manner nor to disclose his own preference for this or that candidate for office. To do so, he said, would possibly expose him and the Catholic church to undeserved criticism."

"The church does not attempt to control the political views or political conduct of its members," said the cardinal. "In the United States Catholics are to be found in all political parties, and each member of the church is free to think and vote as he pleases on political and economic questions. Any attempts to bring the church into the political arena or make it the champion or opponent of any candidate or party does it a grave injustice."

Fatally Wounded by Brother.

Valdosta, Ga., Oct. 3.—News was received here of the shooting of Alfred Boon by his brother, Babe Boon, in Echols county, inflicting probably fatal wounds. Both are under 21 and the sons of a prominent farmer. It is said the trouble grew out of a whipping which Babe Boon administered to a younger sister.

Mitchell Day Observed.

Wilkesbarre, Pa., Oct. 3.—Mitchell day, which commemorates the ending of the first great coal strike in 1900, was observed throughout the anthracite coal regions, there being almost a total suspension of mining.

Wounds Proved Fatal.

Manila, Oct. 3.—George E. Wolf, a leading American merchant here, died as a result of being gored by a mad carabao while out hunting last Sunday.

### THE MEAT OF IT.

William R. Funk of Columbus fell into a vat of lime at the factory where he was working and was so severely burned that he died a few hours later.

Frank Foulke, a Pittsburg detective, is under arrest charged with killing his best friend, Frank Sanders, in a dispute over a dollar.

Twenty persons aboard the Cunard liner Ivernia were injured when the vessel hit a huge tidal wave one day out from Queenstown.

Members of the Black Hand society amputated both arms of Villardo Dipilli, of Morothorn, W. Va., and left him beside a railroad track. He will recover.

David Hissong, the oldest civil war veteran in Columbus, is dead at the age of 91 years.

Edwin Parks, a recruit at the Columbus (O.) barracks, is being held for the Pittsburg police on a charge of larceny.

### Barber Charged With Murder.

Covington, Ky., Oct. 3.—Word was received by the police that Ferris Simpson, a barber, had been arrested at Harrodsburg, charged with the murder of Scipio Noble. A body found near Covington last Saturday with the head severed is thought to be that of Noble of Jackson, Ky., who had served three years in the United States army and left home three weeks ago, saying he would re-enlist. When he left home he carried \$400 in cash and \$900 in notes. Nothing was found on the body of the man found near Covington.

### Sensational Shooting.

Chattanooga, Tenn., Oct. 3.—In a sensational shooting affray at Ross-ville, a suburb of Chattanooga, Constable John Carlock was painfully injured, Oscar Henderson received wounds which caused his death a few hours later and G. S. Henderson was seriously wounded. The fight was result of an attempt of Constable Carlock to arrest the Henderson brothers on the charge of trespassing. G. S. Henderson declares that his brother was shot several times after he was down.

### Cabinet Meetings Postponed.

Washington, Oct. 3.—Owing to the fact that most of the members of the president's official family are absent from the city on campaigning tours, there was no meeting of the cabinet today. The next regular meeting is scheduled for Tuesday, but will be postponed in order that the members can go to their homes to vote.

### Mare Brings Good Price.

Lexington, Ky., Oct. 3.—The feature of the third day's sale of the McGrathiana stud, owned by Colonel Milton Young, was the disposal of the Hanover mare Ora Bailey for \$2,600 to the St. James stable, British Columbia. This is more than twice the amount paid for any other mare at this sale.

### Largest Load of Grain.

Milwaukee, Wis., Oct. 3.—The steamer barge Adam Cornelius left Milwaukee for Buffalo with a cargo of 270,750 bushels of wheat. This is the largest boat load of grain in one consignment to leave Milwaukee in the history of navigation of the Great Lakes.

### Monnett Ventures Prediction.

Chicago, Oct. 3.—Frank S. Monnett, former attorney general of Ohio, arrived in Chicago from the west, where he has been speaking in behalf of Mr. Bryan. At Democratic headquarters he predicted a general victory for Bryan and Kern.

### Occasionally.

And sometimes a man gets married in order to have some one believe his talk.



### AN EXPERT OPINION

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### WOMAN PHYSICIAN ADVOCATES SMOKING.

Says That Women Would Be Better Physically if They Used Cigarettes Three Times a Day.

CHICAGO, Oct. 31.—A dispatch from Philadelphia says:

Dr. Rachel Skidelsky, one of the best-known women physicians of Philadelphia, after starting the Woman's Club yesterday by defending the tobacco habit among men, startled it still more by advocating the use of cigarettes by women.

Many physicians held similar views, Dr. Skidelsky said, but hesitated to advise their women patients to smoke because of the fear that what was offered as medicine might become a habitual indulgence.

"I feel sure," Dr. Skidelsky said, "that tobacco, if pure and properly used, might be beneficial to women. It is known to be valuable in functional disorders and nerves. As men find it valuable to soothe their nerves, midwife care or worries, I do not see why women, whose worries are more numerous and whose nervous organization is more delicate, should not find benefit in its proper use also."

"I think that if a woman would sit down for five minutes before beginning her day and give the time to a cigarette she would be able to plan better her day's work. And the five minutes thus used, three times daily would be, I think, of much benefit to her."

### CARNEGIES ARE BACK HOME.

NEW YORK, Oct. 31.—Mr. and Mrs. Andrew Carnegie and Miss Garden, the opera singer, arrived here from Europe yesterday.

THE NEWS by carrier 10c a week.

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